



Pocket Guide
to the Finest
Registers
for Every Type
of Installation



I M P O R T A N T

The "Pocket Guide" is not a complete catalog of the H & C line, which includes registers and furnace accessories for every type of warm air installation. This pocket catalog has been issued simply that you might have a quick, convenient, easy-to-carry means of reference to data pertaining to those items used in the majority of installations. For information in regard to other register sizes and items not listed here please refer to H & C Complete Register Catalog. A separate pocket catalog is available on furnace accessory items, showing the complete line of regulators, chain plates, chain, pulleys, damper regulators, dampers, damper clips and tips, etc.

H & C also manufacture perforated and cast ornamental grilles in a wide variety of designs and metals. Grilles are shown in a separate catalog.

Any of these catalogs will be furnished to the trade upon request.

The popular priced H & C Automatic Heat Control has received wide favor. Information and prices upon request.

HART & COOLEY MFG. CO.

General Sales Office—61 W. Kinzie St., Chicago

9.00

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Immediate Shipment — REAL Service

Large stocks are maintained to permit quick shipment of all standard items in the line. The bulk of all orders are shipped the same day they are received. Special inquiries are given immediate attention by a trained staff and answered promptly.

SCHAAB ROOFING & SUPPLY CO.

FORT WAYNE, INDIANA

These Factors Definitely Point to the Wisdom of Standardizing on the H & C Line

A Complete Line

The H & C line is the most complete line of fine registers to be found anywhere. No matter what type of installation you may encounter, H & C offers a style and type ideally suited for the purpose.

Each Item Exceptionally Well Made

From a simple comparison it will be quickly noted that H & C registers are decidedly superior — not only by reason of better design, but because of their finer finish, and the evidence of careful, skilled workmanship throughout.

Patented Pinched-Back Fretwork Provides Greater Air Capacity



Compare the two illustrations. The upper view shows the H & C method of completely pinching back the fretwork; the lower indicates the ordinary method.



Obviously the former greatly decreases air resistance, and provides greater air capacity. By actual check, the difference is seldom less than 10%, and usually it is considerably more.

Packed for COMPLETE Protection

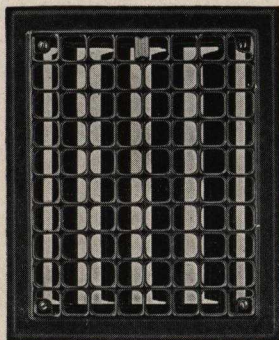
Each register is so carefully packed (individual cartons) that it is bound to reach the point of installation unmarred.

FLOOR REGISTERS

No. 200

Patented

Judged from any or all angles No. 200 is the finest floor register on the market. It is not only unequalled in air capacity, but is also exceptionally strong, rigid and durable. These qualities are derived both from the pinched back fretwork which adds considerably to the strength and rigidity of the face and from the sturdy construction of the register



body. Supporting bars of heavy gauge steel reinforce the face. Valves have solid trunnions securely fastened to each end, insuring free and easy operation and long life. The wide body flanges are turned outward, removing strain from the register face and distributing it to the floor.

LEADING SIZES†, AIR CAPACITIES, LIST PRICES AND CASE LOTS

Open- ing Size	Air Capacity Square Inches	Black Japan	White Japan, Oak, Lacquer Finishes ¹	Electroplated*		No. in Case
				Oxi- dized Copper	Nickel, Brass, Bronze ²	
8x10	56	\$1.65	\$2.00	\$3.15	\$3.85	24
8x12	67	1.90	2.30	3.65	4.40	24
9x12	75	2.10	2.55	4.00	5.10	20
10x12	84	2.40	2.90	4.40	5.50	20
12x14	118	4.35	5.25	6.85	8.25	15
14x16	157	8.50	10.20	11.50	16.50	10
16x18	213	12.00	13.20	16.20	22.25	6

† For other sizes see H & C complete catalog.

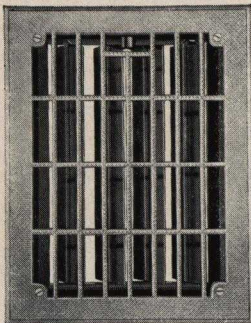
* For sand finishes add 10% to list prices.

¹ Most popular in Lacquered Antique Bronze (LAB). Also available in Lacquered Oxidized Copper (LD2) and Lacquered Brass (LF).

² When ordering state whether light, dull, or statuary bronze finish is wanted.

FLOOR REGISTERS

No. 270 Pebble — Semi-Steel



Attractively designed and finely finished, No. 270 has found considerable favor with those who prefer registers with cast faces. Beveled edges permit installation without recessing. The pebbles protect the finish from surface wear. Castings are sufficiently heavy to insure adequate strength. Multiple valve body of unbreakable steel is similar to No. 200

series. Cold air faces to match (Class No. 280) are shown on Page 7.

For Pebble faces only, without register bodies, specify No. 272.

Made in the following sizes only.

AIR CAPACITY, LIST PRICES AND CASE LOTS, No. 270

Opening Size	Air Capacity Sq. In.	Black Japan	Lacquered Dull Bronze (LA5)	Number in Case
8 x 10	54	\$1.65	\$2.00	12
8 x 12	64	1.90	2.30	12
9 x 12	71	2.10	2.55	12
10 x 12	79	2.40	2.90	12
10 x 14	92	3.15	3.80	12
12 x 14	111	4.35	5.25	12
12 x 15	119	4.50	5.40	12
14 x 16	150	8.50	10.20	6

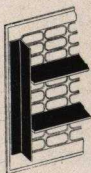
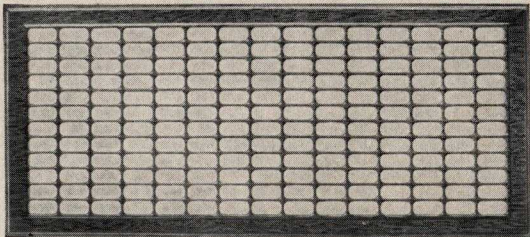
AIR CAPACITY, LIST PRICES AND CASE LOTS, No. 272

Opening Size	Air Capacity Sq. In.	Black Japan	Lacquered Dull Bronze (LA5)	Number in Case
8 x 10	54	1.10	1.45	10
8 x 12	64	1.30	1.70	10
9 x 12	71	1.45	1.90	10
10 x 12	79	1.70	2.20	10
10 x 14	92	2.20	2.85	10
12 x 14	111	2.80	3.65	10
12 x 15	119	2.90	3.80	10
14 x 16	150	4.30	6.00	5

COLD AIR FACES

No. 255

Patented



Adequate strength is insured in this special low-priced steel Cold Air Face by heavy braces permanently spot welded to the face. Wide margins overlap the opening. No careful fitting is required; no fastening in place is necessary.

Large Air Capacity is afforded as shown in table below.

H & C Medium Dark Oak finish matches the average oak floor in color and grain. Furnished in nickel, brass and bronze finishes as well as those shown below.

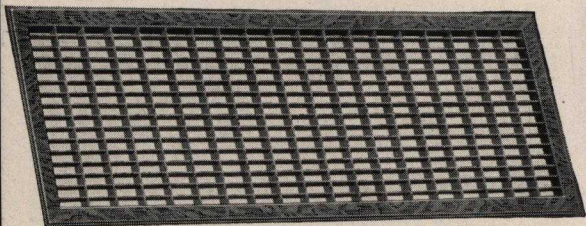
AIR CAPACITIES, PIPE SIZES, LIST PRICES AND CRATE LOTS

Open- ing Size	Air Cap. Sq. In.	Pipe Size Inches	Pipe Capac- ity	Black Japan	Oak, Lacquer Fin- ishes ¹	Electro. Oxi- dized Copper	No. in Crate
12x14	126	12	113	\$2.50	\$3.00	\$4.50	10
6x30	135	12	113	3.40	3.65	4.80	14
8x30	180	14	154	3.60	3.85	5.50	14
10x24	180	14	154	3.60	3.75	5.00	14
10x30	225	16	201	3.75	4.25	5.75	14
12x24	216	16	201	3.75	4.00	5.50	14
12x30	270	18	254	4.00	4.50	6.00	14
14x30	313	20	314	4.50	5.00	9.00	8
16x30	360	20	314	5.50	6.00	9.50	8
18x30	405	22	380	5.75	6.50	10.00	8
20x30	450	24	452	6.00	7.00	10.50	6
24x30	540	26	530	9.50	10.00	15.00	6

¹ Most popular in Lacquered Antique Bronze (LAB). Also available in Lacquered Oxidized Copper (LD2) and Lacquered Brass (LF).

COLD AIR FACES

No. 265 "NO-FLEX"



Two features in particular recommend this improved grid type cold air face; (1) Large air capacity; (2) Shallow depth — an important factor where single flooring is used.

Structural superiorities: Narrow mesh ($1\frac{11}{16}$ " x $1\frac{7}{16}$ ") avoids "Heel trouble." Flush intersections and square upper edges improve appearance and provide better walking surface. Members are carefully aligned. Margins are straight as a die — narrow for close installation — beveled for strength. Welding on under side makes corner joints invisible.

Most popular in Medium Dark Oak Finish. Furnished in nickel, brass and bronze finishes as well as those shown below.

LEADING SIZES†, AIR CAPACITIES, PIPE SIZES, LIST PRICES AND CRATE LOTS

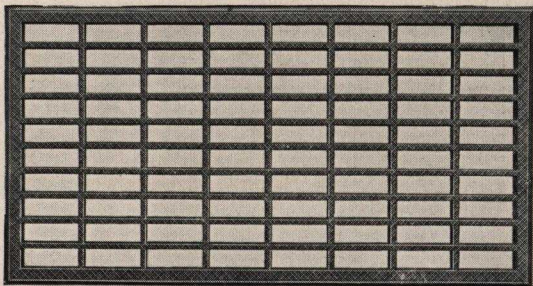
Open- ing Size	Air Cap. Sq. In.	Pipe Size In.	Pipe Capa- city	Black Japan	Oak, Lacquer Finishes ¹	Electro. Oxidized Copper	No. in Crate
10x12	98	10	78	\$1.70	\$2.20	\$3.70	10
12x14	139	12	113	2.50	3.00	4.50	10
6x24	117	12	113	2.70	3.20	4.70	14
6x30	146	12	113	3.40	3.65	4.80	14
8x24	158	14	154	3.00	3.15	4.40	14
10x24	202	16	201	3.60	3.75	5.00	14
12x24	240	16	201	3.75	4.00	5.50	14
8x30	201	16	201	3.60	3.85	5.50	14
10x30	250	18	254	3.75	4.25	5.75	14
12x30	300	18	254	4.00	4.50	6.00	14
14x30	350	20	314	4.50	5.00	9.00	8
16x30	403	22	380	5.50	6.00	9.50	8
18x30	456	24	452	5.75	6.50	10.00	8
20x30	504	24	452	6.00	7.00	10.50	8
22x30	557	26	530	7.75	8.50	12.75	8

† For other sizes see H & C complete catalog.

¹ Most popular in Lacquered Antique Bronze (LAB). Also available in Lacquered Oxidized Copper (LD2) and Lacquered Brass (LF).

COLD AIR FACES

No. 280



Pebble — Cast Iron

This heavy Cold Air Face is most popular in LA5 finish (Lacquered Dull Bronze). The pebbles protect the finish from surface wear. Beveled edges make countersinking unnecessary. Narrow margins permit installation close to baseboard. Matches in design No. 270 Floor Register shown on Page 4.

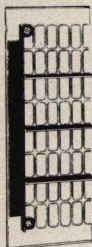
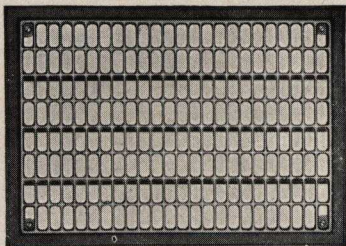
Made in the following sizes only.

AIR CAPACITY, LIST PRICES AND CRATE LOTS

Opening Size	Air Capacity Sq. In.	Black Japan	Lacquered Dull Bronze (LA5)	No. in Crate
12 x 14	106	\$2.50	\$3.00	10
8 x 30	154	3.60	3.85	10
12 x 18	150	3.15	3.34	10
10 x 30	192	3.75	4.25	10
12 x 24	184	3.75	4.00	10
12 x 30	234	4.00	4.50	10
16 x 24	246	4.50	5.00	10
14 x 30	270	4.50	5.00	10
18 x 24	271	5.40	5.84	6
16 x 30	307	5.50	6.00	6
20 x 24	307	5.60	6.17	6
18 x 30	358	5.75	6.50	6
20 x 30	381	6.00	7.00	6
24 x 30	490	9.50	10.00	6

COLD AIR FACES

No. 250



This heavy-duty, unbreakable steel Cold Air Face is made in all standard sizes up to 38" x 42". It is unsurpassed in air capacity.

The sturdy reinforcing framework is bolted to the face plate and is removable. The overlap of the face margin eliminates necessity of accurate fitting. Furnished in brass, nickel, and bronze finishes as well as those shown below.

When desired unbraced for sidewall or ceiling use, specify "No. 250 N.B." (not braced).

LEADING SIZES†, AIR CAPACITIES, PIPE SIZES, LIST PRICES AND CRATE LOTS

Open- ing Size	Air Cap. Sq. In.	Pipe Size, In.	Pipe Capa- city	Black Japan	White Japan, Oak, Lacquer Finishes	Electro. Oxi- dized Copper	No. in Crate
14x16	157	14	154	\$4.30	\$6.00	\$7.30	18
16x18	213	16	201	5.30	6.50	9.50	12
18x20	267	18	254	7.60	9.55	12.85	8
18x24	319	20	314	8.35	10.50	14.60	8
20x26	385	22	380	9.50	11.85	17.50	6
20x30	445	24	452	11.60	16.85	23.50	6
24x30	532	26	530	17.25	21.05	29.25	4
28x30	630	28	615	21.00	25.85	35.50	3
30x30	674	30	706	21.50	26.40	37.00	3

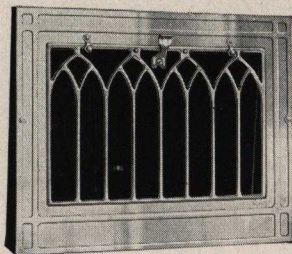
† For other sizes see H & C complete catalog.

BASEBOARD REGISTERS

No. 110 SERIES

With Removable Face

The attractive design of this register, plus its large air capacity and fine workmanship, have made it extremely popular. Installers will find that the large air capacities shown below make possible substantial savings in register costs. For example, size 8 x 12



has free face area equal to capacity of 10" pipe. The face is removable from frame by a quarter turn of the locking buttons. Height from floor to stackhead opening is 2 1/4".

AIR CAPACITIES, LIST PRICES AND CASE LOTS

Size	Class No.	Proj. from Wall at Base	Air Cap. Sq. In.	Black Japan	White Japan, Oak, Lacquer Finishes ¹	Electroplated*		No. in Case
						Oxidized Copper	Nickel, Brass, Bronze ²	
8x10	111 1/4	1 1/4"	63	\$2.00	\$2.35	\$3.50	\$3.85	24
8x12	111 1/4	1 1/4"	78	2.40	2.90	3.95	4.35	24
9x12	111 1/4	1 1/4"	88	2.50	3.00	4.00	4.40	24
8x10	112 1/4	2 1/4"	63	2.00	2.35	3.50	3.85	20
8x12	112 1/4	2 1/4"	78	2.40	2.90	3.95	4.35	20
9x12	112 1/4	2 1/4"	88	3.00	3.50	4.50	4.90	20
8x12	113 1/4	3 1/4"	78	3.00	3.50	4.50	4.90	18
9x12	113 1/4	3 1/4"	88	3.00	3.50	4.50	4.90	18
10x12	113 1/4	3 1/4"	98	4.00	4.60	5.75	6.35	16
10x13	113 1/4	3 1/4"	107	4.20	5.00	6.20	7.00	16
11x13	113 1/4	3 1/4"	118	4.50	5.25	6.75	7.50	16
10x13	114 3/4	4 3/4"	107	4.85	5.50	7.00	8.00	18
11x13	115 1/4	5 7/8"	118	5.25	6.00	7.50	8.25	14
12x14	115 1/4	5 7/8"	149	6.50	7.50	8.50	9.50	12
12x14	117 1/2	7 1/2"	149	9.00	10.00	12.00	12.50	8

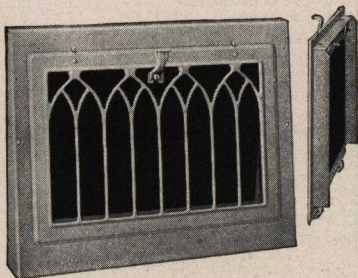
* For sand finishes add 10% to list prices.

¹ Most popular in Lacquered Antique Bronze (LAB). Also available in Lacquered Oxidized Copper (LD2) and Lacquered Brass (LF).

² When ordering state whether light, dull, or statuary bronze finish is wanted.

BASEBOARD REGISTERS

NO. 120 SERIES With Removable Face



This register differs from the 110 Series baseboard register in that it is made to be installed with the stackhead overlapping the frame. Those who prefer this method of in-

stallation will find this register ideal — combining as it does an extremely attractive face design with unusually large free area, a quickly detachable face, and a valve and operating mechanism with extremely smooth action. Plenty of clearance is left for the stackhead, eliminating all danger of valve interference. The stackhead opening is 2 1/4" from the floor line.

AIR CAPACITIES, LIST PRICES AND CASE LOTS

Size	Class No.	Proj. from Wall at Base	Air Cap. Sq. In.	Black Japan	White Japan, Oak, Lacquer Finishes ¹	Electroplated*		No. in Case
						Oxidized Copper	Nickel, Brass, Bronze ²	
8x10	121 1/4	1 1/4"	63	\$2.00	\$2.35	\$3.50	\$3.85	24
8x12	121 1/4	1 1/4"	78	2.40	2.90	3.95	4.35	24
9x12	121 1/4	1 1/4"	88	2.50	3.00	4.00	4.40	24
8x10	122 1/4	2 1/4"	63	2.00	2.35	3.50	3.85	20
8x12	122 1/4	2 1/4"	78	2.40	2.90	3.95	4.35	20
9x12	122 1/4	2 1/4"	88	3.00	3.50	4.50	4.90	20
8x12	123 1/4	3 1/4"	78	3.00	3.50	4.50	4.90	18
9x12	123 1/4	3 1/4"	88	3.00	3.50	4.50	4.90	18
10x12	123 1/4	3 1/4"	98	4.00	4.60	5.75	6.35	16
10x13	123 1/4	3 1/4"	107	4.20	5.00	6.20	7.00	16
11x13	123 1/4	3 1/4"	118	4.50	5.25	6.75	7.50	16
10x13	124 3/4	4 3/4"	107	4.85	5.50	7.00	8.00	18
11x13	125 1/4	5 7/8"	118	5.25	6.00	7.50	8.25	14
12x14	125 1/4	5 7/8"	149	6.50	7.50	8.50	9.50	12
12x14	127 1/2	7 1/2"	149	9.00	10.00	12.00	12.50	8

*For sand finishes add 10% to list prices.

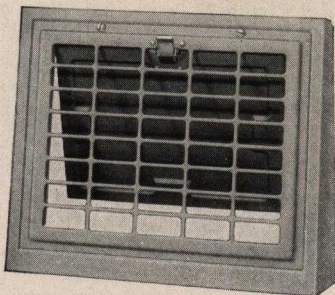
¹Most popular in Lacquered Antique Bronze (LAB). Also available in Lacquered Oxidized Copper (LD²) and Lacquered Brass (LF).

²When ordering state whether light, dull, or statuary bronze finish is wanted.

BASEBOARD REGISTERS

No. 130 Series With Removable Face

(Formerly manufactured by Tuttle and Bailey Mfg. Co.)



No. 130 Series, formerly known as Style 902

The No. 130 Series is a popular line with those who prefer a plain lattice register which is installed with stackhead overlapping the register frame. The stackhead opening is $2\frac{1}{8}$ " from the floor line.

AIR CAPACITIES, LIST PRICES AND CASE LOTS NO. 130 SERIES, FORMERLY KNOWN AS STYLE 902

Size	Class No.	Proj. from Wall at Base	Former T & B Style No.†	Air Cap. Sq. In.	Black Japan	White Japan, Oak, Lacquer Finishes¹	Electroplated*		No. in Carton
							Oxidized Copper	Nickel, Brass, Bronze²	
8x10	132 $\frac{1}{8}$	2 $\frac{1}{8}$ "	902-6- $\frac{1}{8}$	62	\$2.00	\$2.35	\$3.50	\$3.85	10
8x12	132 $\frac{1}{8}$	2 $\frac{1}{8}$ "	902-6- $\frac{1}{8}$	74	2.40	2.90	3.95	4.35	10
9x12	132 $\frac{1}{8}$	2 $\frac{1}{8}$ "	902-6- $\frac{1}{8}$	84	3.00	3.50	4.50	4.90	10
8x12	133 $\frac{1}{4}$	3 $\frac{1}{4}$ "	902-7- $\frac{1}{8}$	74	3.00	3.50	4.50	4.90	5
9x12	133 $\frac{1}{4}$	3 $\frac{1}{4}$ "	902-7- $\frac{1}{8}$	84	3.00	3.50	4.50	4.90	5
10x12	133 $\frac{1}{4}$	3 $\frac{1}{4}$ "	902-7- $\frac{1}{8}$	93	4.00	4.60	5.75	6.35	5
11x13	133 $\frac{1}{4}$	3 $\frac{1}{4}$ "	902-7- $\frac{1}{8}$	110	4.50	5.25	6.75	7.50	5
11x13	135 $\frac{1}{2}$	5 $\frac{1}{2}$ "	902-9- $\frac{1}{8}$	110	5.25	6.00	7.50	8.25	5
12x14	135 $\frac{1}{2}$	5 $\frac{1}{2}$ "	902-9- $\frac{1}{8}$	128	6.50	7.50	8.50	9.50	5

† Last figure and fraction indicate depth of stackhead (outside).

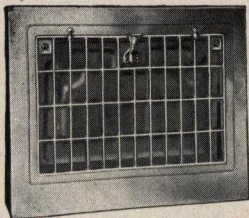
* For sand finishes add 10% to list prices.

¹ Most popular in T & B Tanbo Antique (T.A.) and H & C Lacquered Antique Bronze (LAB). Also available in Lacquered (Tanbo) Oxidized Copper (LD²), Lacquered (Tanbo) Brass (LF), and other Tanbo finishes.

² When ordering state whether light, dull, or statuary bronze finish is wanted.

BASEBOARD REGISTERS

NO. 150 SERIES With Removable Face



Among those who prefer the plain lattice design this register has long been a favorite. The ob-long perforations and the completely pinched - back fretwork result in air capacity that is exceptional in registers of plain lattice design. The face may be easily and quickly released from the frame by a quarter turn of two locking buttons at the top. As in the Nos. 110 and 170 Series baseboard registers, slots are provided in the frame flange for convenient fastening to stackhead. Height from floor to stackhead opening is $2\frac{1}{4}$ ".

AIR CAPACITIES, LIST PRICES AND CASE LOTS

Size	Class No.	Proj. from Wall at Base	Air Cap. Sq. In.	Black Japan	White Japan, Oak, Lacquer Finishes ¹	Electroplated*		No. in Case
						Oxidized Copper	Nickel, Brass, Bronze ²	
8x10	151 $\frac{1}{4}$	1 $\frac{1}{4}$ "	55	\$2.00	\$2.35	\$3.50	\$3.85	24
8x12	151 $\frac{1}{4}$	1 $\frac{1}{4}$ "	68	2.40	2.90	3.95	4.35	24
9x12	151 $\frac{1}{4}$	1 $\frac{1}{4}$ "	78	2.50	3.00	4.00	4.40	24
8x10	152 $\frac{1}{4}$	2 $\frac{1}{4}$ "	55	2.00	2.35	3.50	3.85	20
8x12	152 $\frac{1}{4}$	2 $\frac{1}{4}$ "	68	2.40	2.90	3.95	4.35	20
9x12	152 $\frac{1}{4}$	2 $\frac{1}{4}$ "	78	3.00	3.50	4.50	4.90	20
10x12	153 $\frac{1}{4}$	3 $\frac{1}{4}$ "	86	4.00	4.60	5.75	6.35	16
11x13	153 $\frac{1}{4}$	3 $\frac{1}{4}$ "	103	4.50	5.25	6.75	7.50	16
11x13	155 $\frac{1}{4}$	5 $\frac{7}{8}$ "	103	5.25	6.00	7.50	8.25	14
12x14	155 $\frac{1}{4}$	5 $\frac{7}{8}$ "	121	6.50	7.50	8.50	9.50	12

*For sand finishes add 10% to list prices.

¹Most popular in Lacquered Antique Bronze (LAB). Also available in Lacquered Oxidized Copper (LD²) and Lacquered Brass (LF).

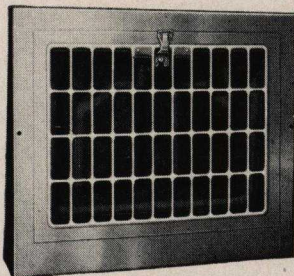
²When ordering state whether light, dull, or statuary bronze finish is wanted.

BASEBOARD REGISTERS

NO. 160 SERIES

With Non-Removable Face

This Series combines the economy of a one-piece register with a conservative plain lattice face design. The fretwork is formed back affording large free air capacity as will be



noted below. Valve is so fastened to frame that it cannot become detached and fall into the pipe. Valve control is positive and dependable. A turn of the screwdriver adjusts the valve tension.

Distance from floor to stackhead opening conforms to the standard of $2\frac{1}{4}$ ".

AIR CAPACITIES, LIST PRICES AND CASE LOTS

Size	Class No.	Proj. from Wall at Base	Air Cap. Sq. In.	Black Japan	White Japan, Oak, Lacquer Finishes ¹	Electroplated*		No. in Case
						Oxidized Copper	Nickel, Brass, Bronze ²	
8x10	161 $\frac{1}{4}$	1 $\frac{1}{4}$ "	55	\$2.00	\$2.35	\$3.50	\$3.85	24
8x12	161 $\frac{1}{4}$	1 $\frac{1}{4}$ "	68	2.40	2.90	3.95	4.35	24
9x12	161 $\frac{1}{4}$	1 $\frac{1}{4}$ "	78	2.50	3.00	4.00	4.40	24
8x10	162 $\frac{1}{4}$	2 $\frac{1}{4}$ "	55	2.00	2.35	3.50	3.85	20
8x12	162 $\frac{1}{4}$	2 $\frac{1}{4}$ "	68	2.40	2.90	3.95	4.35	20
9x12	162 $\frac{1}{4}$	2 $\frac{1}{4}$ "	78	3.00	3.50	4.50	4.90	20
10x12	163 $\frac{1}{4}$	3 $\frac{1}{4}$ "	86	4.00	4.60	5.75	6.35	16
11x13	163 $\frac{1}{4}$	3 $\frac{1}{4}$ "	103	4.50	5.25	6.75	7.50	16
11x13	165 $\frac{1}{4}$	5 $\frac{7}{8}$ "	103	5.25	6.00	7.50	8.25	14
12x14	165 $\frac{1}{4}$	5 $\frac{7}{8}$ "	121	6.50	7.50	8.50	9.50	12

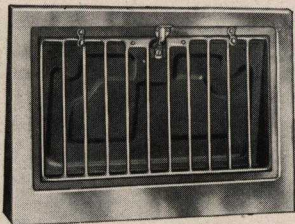
*For sand finishes add 10% to list prices.

¹Most popular in Lacquered Antique Bronze (LAB). Also available in Lacquered Oxidized Copper (LD²) and Lacquered Brass (LF).

²When ordering state whether light, dull, or statuary bronze finish is wanted.

BASEBOARD REGISTERS

NO. 170 SERIES With Removable Face



This register, with quickly detachable face is made in formed bar design to give the greatest possible free face area consistent with proper protection of opening and attractive appearance.

Size 8 x 12 has free face area equal to capacity of 10" pipe. See table below for air capacity.

The vertical bars are formed double thickness and are sufficiently deep to afford more than adequate strength.

Height from floor to stackhead opening is 2 1/4"

AIR CAPACITIES, LIST PRICES AND CASE LOTS

Size	Class No.	Proj. from Wall at Base	Air Cap. Sq. In.	Black Japan	White Japan, Oak, Lacquer Finishes ¹	Electroplated*		No. in Case
						Oxi-dized Copper	Nickel, Brass, Bronze ²	
8x10	171 1/4	1 1/4"	63	\$2.00	\$2.35	\$3.50	\$3.85	24
8x12	171 1/4	1 1/4"	78	2.40	2.90	3.95	4.35	24
9x12	171 1/4	1 1/4"	88	2.50	3.00	4.00	4.40	24
8x10	172 1/4	2 1/4"	63	2.00	2.35	3.50	3.85	20
8x12	172 1/4	2 1/4"	78	2.40	2.90	3.95	4.35	20
9x12	172 1/4	2 1/4"	88	3.00	3.50	4.50	4.90	20
8x12	173 1/4	3 1/4"	78	3.00	3.50	4.50	4.90	18
10x12	173 1/4	3 1/4"	98	4.00	4.60	5.75	6.35	16
10x13	173 1/4	3 1/4"	107	4.20	5.00	6.20	7.00	16
11x13	173 1/4	3 1/4"	118	4.50	5.25	6.75	7.50	16
10x13	174 3/4	4 3/4"	107	4.85	5.50	7.00	8.00	18
11x13	175 1/4	5 7/8"	118	5.25	6.00	7.50	8.25	14
12x14	175 1/4	5 7/8"	149	6.50	7.50	8.50	9.50	12
12x14	177 1/2	7 1/2"	149	9.00	10.00	12.00	12.50	8

*For sand finishes add 10% to list prices.

¹Most popular in Lacquered Antique Bronze (LAB). Also available in Lacquered Oxidized Copper (LD²) and Lacquered Brass (LF).

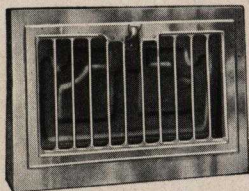
²When ordering state whether light, dull, or statuary bronze finish is wanted.

BASEBOARD REGISTERS

No. 190 SERIES

With Non-Removable Face

Where the utmost in economy is desired, No. 190 is the ideal register. Having a non-detachable face, it sells at lower prices than two-piece registers, and further substantial savings may be made by taking advantage of its large air



capacity as shown below. No. 190 conforms in every way to the high standards of H & C quality. The distance from the floor to stackhead opening is $2\frac{1}{4}$ ".

AIR CAPACITIES, LIST PRICES AND CASE LOTS

Size	Class No.	Proj. from Wall at Base	Air Cap. Sq. In.	Black Japan	White Japan, Oak, Lacquer Finishes ¹	Electroplated*		No. in Case
						Oxi-dized Copper	Nickel, Brass, Bronze ²	
a6x10	191 $\frac{1}{4}$	1 $\frac{1}{4}$ "	47	\$1.80	\$2.10	\$3.15	\$3.50	24
a6x12	191 $\frac{1}{4}$	1 $\frac{1}{4}$ "	57	2.15	2.60	3.60	3.95	24
8x10	191 $\frac{1}{4}$	1 $\frac{1}{4}$ "	63	2.00	2.35	3.50	3.85	24
8x12	191 $\frac{1}{4}$	1 $\frac{1}{4}$ "	78	2.40	2.90	3.95	4.35	24
9x12	191 $\frac{1}{4}$	1 $\frac{1}{4}$ "	88	2.50	3.00	4.00	4.40	24
8x10	192 $\frac{1}{4}$	2 $\frac{1}{4}$ "	63	2.00	2.35	3.50	3.85	20
8x12	192 $\frac{1}{4}$	2 $\frac{1}{4}$ "	78	2.40	2.90	3.95	4.35	20
9x12	192 $\frac{1}{4}$	2 $\frac{1}{4}$ "	88	3.00	3.50	4.50	4.90	20
8x12	193 $\frac{1}{4}$	3 $\frac{1}{4}$ "	78	3.00	3.50	4.50	4.90	18
10x12	193 $\frac{1}{4}$	3 $\frac{1}{4}$ "	98	4.00	4.60	5.75	6.35	16
10x13	193 $\frac{1}{4}$	3 $\frac{1}{4}$ "	107	4.20	5.00	6.20	7.00	16
11x13	193 $\frac{1}{4}$	3 $\frac{1}{4}$ "	118	4.50	5.25	6.75	7.50	16
10x13	194 $\frac{3}{4}$	4 $\frac{3}{4}$ "	107	4.85	5.50	7.00	8.00	18
11x13	195 $\frac{1}{4}$	5 $\frac{7}{8}$ "	118	5.25	6.00	7.50	8.25	14
12x14	195 $\frac{1}{4}$	5 $\frac{7}{8}$ "	149	6.50	7.50	8.50	9.50	12

a Sizes 6 x 10 and 6 x 12 are furnished with curved valves.

*For sand finishes add 10% to list prices.

¹Most popular in Lacquered Antique Bronze (LAB). Also available in Lacquered Oxidized Copper (LD²) and Lacquered Brass (LF).

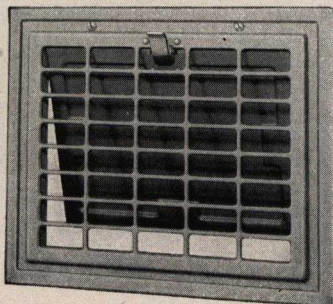
²When ordering state whether light, dull, or statuary bronze finish is wanted.

SIDEWALL REGISTERS

No. 330

With Removable Face

(Formerly manufactured by Tuttle and Bailey Mfg. Co.)



No. 330, formerly known as Style 302

This two-piece sidewall register is made only in horizontal setting. The edges of the stackhead can be turned over the outer frame just as in No. 130 Series Baseboard Register, formerly known as Style 902. The deep flange on the rear of the register face fits snugly into the stackhead.

AIR CAPACITIES, LIST PRICES AND CASE LOTS NO. 330, FORMERLY KNOWN AS STYLE 302

Open- ing Size	Air Capacity Square Inches	Black Japan	White Japan, Oak, Lacquer Finishes ¹	Electroplated*		No. in Carton
				Oxi- dized Copper	Nickel, Brass, Bronze ²	
8x10	62	\$1.65	\$2.00	\$3.15	\$3.85	10
8x12	74	1.90	2.30	3.65	4.40	10
9x12	84	2.10	2.55	4.00	5.10	10
10x12	93	2.40	2.90	4.40	5.50	10

* For sand finishes add 10% to list prices.

¹ Most popular in T & B Tanbo Antique (T.A.) and H & C Lacquered Antique Bronze (LAB). Also available in Lacquered (Tanbo) Oxidized Copper (LD²), Lacquered (Tanbo) Brass (LF), and other Tanbo finishes.

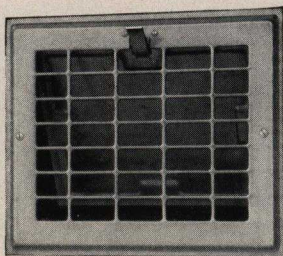
² When ordering state whether light, dull, or statuary bronze finish is wanted.

SIDEWALL REGISTERS

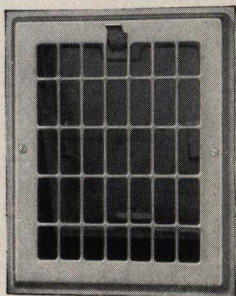
Nos. 332 and 338

(Formerly manufactured by Tuttle and Bailey Mfg. Co.)

Right — No. 332, Horizontal, formerly known as Style 32



Below — No. 338 Vertical, formerly known as Style 38



These oblong hole sidewall registers match in design No. 130 Series Baseboard Registers, formerly known as Style 902.

**AIR CAPACITIES, LIST PRICES AND CASE LOTS
NOS. 332 AND 338, FORMERLY KNOWN AS STYLE 32 AND
STYLE 38**

Opening Size	Air Capacity Square Inches	Black Japan	White Japan, Oak, Lacquer Finishes ¹	Electroplated*		No. in Carton
				Oxi- dized Copper	Nickel, Brass, Bronze ²	
8x10	62	\$1.65	\$2.00	\$3.15	\$3.85	10
8x12	74	1.90	2.30	3.65	4.40	10
9x12	84	2.10	2.55	4.00	5.10	10
10x12	93	2.40	2.90	4.40	5.50	10

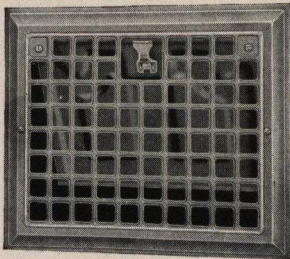
* For sand finishes add 10% to list prices.

¹ Most popular in T & B Tanbo Antique (T.A.) and H & C Lacquered Antique Bronze (LAB). Also available in Lacquered (Tanbo) Oxidized Copper (LD²), Lacquered (Tanbo) Brass (LF), and other Tanbo finishes.

² When ordering state whether light, dull, or statuary bronze finish is wanted.

SIDEWALL REGISTERS

Nos. 340 and 350

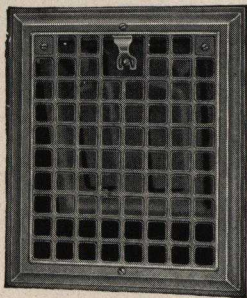


No. 340 Horizontal

Provided with removable flange for fastening to stackhead.

The valve opens full 90° and swings on an adjustable friction hinge that assures positive, quiet operation.

These registers have heavy corrugated fretwork and convex margins, which not only add to the beauty of the design, but also serve to cover inequalities in the plaster.



No. 350 Vertical

AIR CAPACITIES, LIST PRICES AND CASE LOTS NOS. 340 AND 350

Open- ing Size	Air Cap. Sq. In.	Black Japan	White Japan, Oak, Lacquer Finishes ¹	Electroplated*		No. in Case
				Oxi- dized Copper	Nickel, Brass, Bronze ²	
8x10	44	\$1.65	\$2.00	\$3.15	\$3.85	30
8x12	53	1.90	2.30	3.65	4.40	30
9x12	60	2.10	2.55	4.00	5.10	30
10x12	66	2.40	2.90	4.40	5.50	30
10x14	78	3.15	3.80	5.25	6.55	24

*For sand finishes add 10% to list prices.

¹Most popular in Lacquered Antique Bronze (LAB). Also available in Lacquered Oxidized Copper (LD²) and Lacquered Brass (LF).

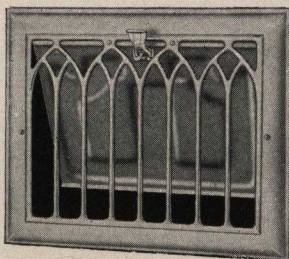
²When ordering state whether light, dull, or statuary bronze finish is wanted.

SIDEWALL REGISTERS

Nos. 310 and 390

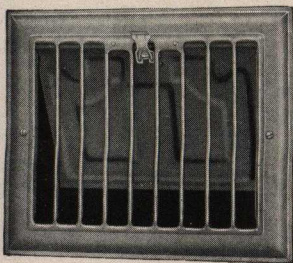
No. 310 Sidewall Register conforms in design with Nos. 110 and 120 series baseboard registers.

The No. 390 Register matches in general appearance the No. 170 and No. 190 baseboard registers.



No. 310

Both No. 310 and 390 lines are made for horizontal setting only. Their free air capacity is so great that sizes larger than 8 x 12 are not necessary. Both lines are furnished with removable flange for fastening to stackhead.



No. 390

Valve swings full 90°, is easily adjusted, and positively controlled in any position.

AIR CAPACITIES, LIST PRICES AND CASE LOTS

No. 310

Opening Size	Air Cap. Sq. In.	Black Japan	White Japan, Oak, Lacquer Finishes ¹	Electroplated*		No. in Case
				Oxidized Copper	Nickel, Brass, Bronze ²	
8x10	59	\$1.65	\$2.00	\$3.15	\$3.85	30
8x12	72	1.90	2.30	3.65	4.40	30

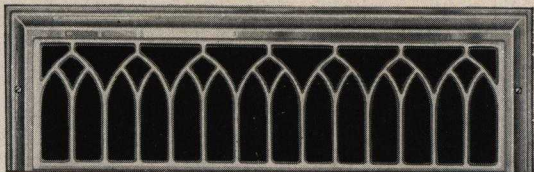
No. 390

a6x10	43	\$1.50	\$1.80	\$2.85	\$3.50	30
a6x12	53	1.70	2.00	3.30	3.95	30
8x10	59	1.65	2.00	3.15	3.85	30
8x12	72	1.90	2.30	3.65	4.40	30

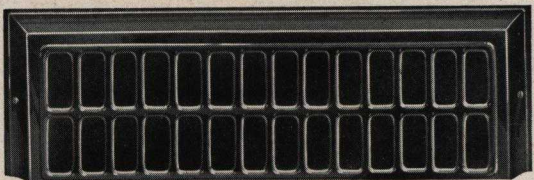
a Sizes 6 x 10 and 6 x 12 No. 390 are furnished with curved valves.
*, ¹, ²—See Classes 340 and 350, page 18.

COLD AIR INTAKES

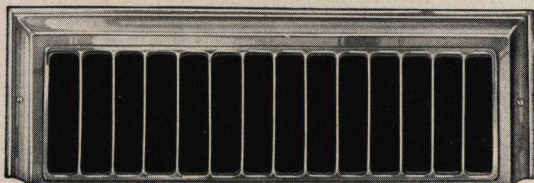
The three Baseboard Cold Air Intakes shown below match in design the several lines of baseboard and sidewall registers described on previous pages. In each the openings extend close to the floor, making them exceptionally efficient in removing cold air.



No. 651 Matches Nos. 110-120-310



No. 655 Matches Nos. 150 and 160



No. 657 Matches Nos. 170-190-390

AIR CAPACITIES, LIST PRICES AND CASE LOTS NOS. 651, 655 AND 657

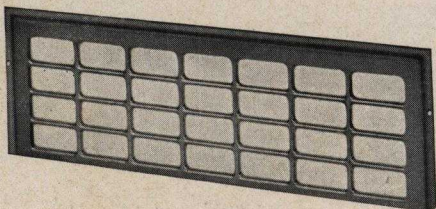
Open ing Size	Overall Dimen- sions, (approx.)	Air Capacity Sq. Inches			Black Japan	White Japan, Oak, Lacquer Fin- ishes ¹	Electroplated*		No. in Case
		No. 651	No. 657	No. 655			Oxi- dized Copper	Nickel, Brass, Bronze ²	
4x14	5 ³ / ₈ x16 ¹ / ₈	44	46	35	\$1.00	\$1.40	\$2.00	\$2.40	10
4x30	5 ³ / ₈ x32	96	98	75	2.15	3.00	4.60	5.00	10

*, 1, 2—See Classes 340 and 350, page 18.

COLD AIR INTAKES

No. 658 and 608

(Formerly manufactured by Tuttle and Bailey Mfg. Co.)

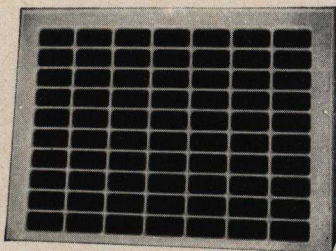


No. 658 Convex, formerly known as Style CX-92

No. 608, formerly known as Style N-92

No. 608 is made with projections from the wall varying from 4 to 6 $\frac{3}{4}$ ".

Also furnished in nickel, brass and bronze finishes.



AIR CAPACITIES AND LIST PRICES NO. 658, FORMERLY KNOWN AS STYLE CX-92

Cat. Size or Face Open- ing	Dimensions		Proj. From Wall	Air Cap. Sq. In.	Black Japan	White Japan, Oak, Lacquer Fin- ishes ¹	Electro. Oxi- dized Copper
	Overall	Wall Opening					
4x14	5 $\frac{1}{4}$ x16	4x14		43	\$1.00	\$1.40	\$2.00
4x30	5 $\frac{1}{4}$ x32	4x30		93	2.15	3.00	4.60

NO. 608, FORMERLY KNOWN AS STYLE N-92

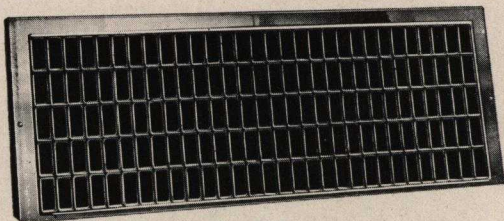
10x14	11 $\frac{1}{2}$ x16		4"	103	\$2.50	\$3.00	\$4.50
9x30	10 $\frac{1}{2}$ x32		3"	205	5.00	6.25	9.00
11x30	12 $\frac{1}{2}$ x32		5"	250	5.50	6.50	9.50
13x30	14 $\frac{1}{2}$ x32		6 $\frac{3}{4}$ "	295	7.00	8.40	11.00

For sand finishes add 10% to list prices.

¹ Most popular in T & B Tanbo Antique (T.A.) and H & C Lacquered Antique Bronze (LAB). Also available in Lacquered (Tanbo) Oxidized Copper (LD²), Lacquered (Tanbo) Brass (LF), and other Tanbo finishes.

COLD AIR INTAKES

Nos. 605 and 607



No. 605

This Intake, matching in design No. 150 and No. 160 Series baseboard registers is made with projections from the wall varying from 3 to 6½". Also furnished in nickel, brass and bronze finishes.

No. 607

Has bar type face to match No. 170 and No. 190 Series baseboard registers. Made with projections from wall varying from 4½" to 7½". Also furnished in nickel, brass and bronze finishes.

DIMENSIONS, AIR CAPACITIES AND LIST PRICES NO. 605, OBLONG HOLE TYPE

Cat. Size or Face Open- ing	Dimensions		Proj. From Wall	Air Cap. Sq. In.	Black Japan	White Japan, Oak, Lacquer Fin- ishes ¹	Electro. Oxi- dized Copper
	Overall	Wall Opening					
10x14	11 13/32 x 16 3/8	11 x 14 1/2	3 "	91	\$2.50	\$3.00	\$4.50
12x14	13 3/8 x 16 3/8	12 3/4 x 14 1/2	3 "	110	3.00	3.60	5.00
10x30	11 13/32 x 31 15/16	11 x 30 1/4	3 "	197	5.00	6.25	9.00
12x30	13 3/8 x 31 15/16	12 1/2 x 30 1/4	4 1/2"	236	5.50	6.50	9.50
14x30	15 7/16 x 31 15/16	14 1/2 x 30 1/4	5 1/2"	274	7.50	8.50	12.00
16x30	17 3/8 x 31 15/16	16 x 30 1/4	6 1/2"	314	8.50	10.00	14.00

NO. 607, BAR TYPE

10x14	11 13/32 x 16 3/8	10 1/4 x 14 1/2	5 1/2"	115	\$2.50	\$3.00	\$4.50
12x14	13 3/8 x 16 3/8	11 1/4 x 14 1/2	7 1/2"	138	3.00	3.60	5.00
9x30	10 7/16 x 31 15/16	9 1/2 x 30 1/4	4 1/2"	221	5.00	6.25	9.00
10x30	11 13/32 x 31 15/16	9 3/4 x 30 1/4	6 "	245	5.50	6.50	9.50
12x31	13 3/8 x 32 5/16	11 x 31 1/4	7 1/2"	305	7.50	8.50	12.00

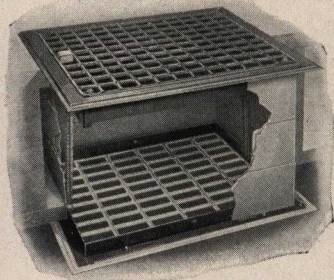
For other styles of intakes see H & C Complete Catalog.

*For sand finishes add 10% to list prices.

¹Most popular in Lacquered Antique Bronze (LAB). Also available in Lacquered Oxidized Copper (LD²) and Lacquered Brass (LF).

ADJUSTABLE VENTILATORS

Nos. 2250 and 2255



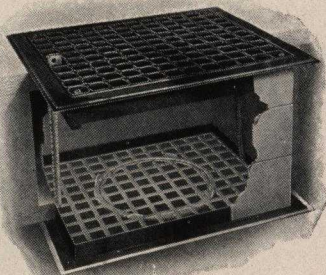
No. 2250

Made to carry surplus heat from a lower to an upper room. Ventilators are complete, ready for installation, each consisting of one black japanned floor register, and one white japanned face, connected by a three-piece tin box

which is adjustable from 5 to 12 inches in depth.

Easy to install. Allows a maximum of heat to pass through. Packed one in a carton, fully assembled, collapsed to 5".

Class 2255 Ventilator is made for use with double heater stoves, the warm air pipe from the stove being connected to a six-inch opening in the ceiling plate of the ventilator.



No. 2255

LEADING SIZES†, LIST PRICES AND CRATE LOTS NOS. 2250 AND 2255

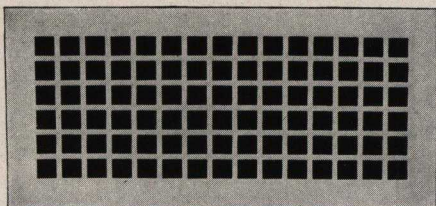
Each Ventilator Packed in Separate Corrugated Carton

Size	List	Number in Crate	Size	List	Number in Crate
8x10	\$4.40	12	10x12	\$ 6.40	12
8x12	4.80	12	10x14	7.60	12
9x12	5.40	12	12x14	10.00	12

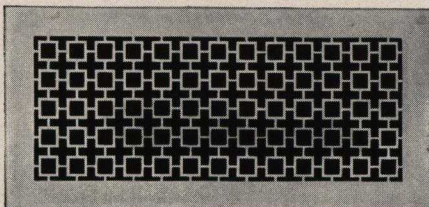
† For other sizes see H & C Complete Catalog.

FORCED AIR REGISTERS

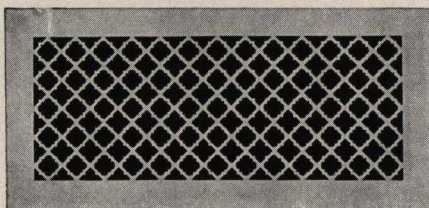
The H & C line of Forced Air Registers includes Baseboard and Sidewall Registers and Return Air Intakes, all of which are available in the three designs shown below.



No. 50 Grille Design



No. 40 Grille Design



No. 30 Grille Design

The Sidewall and Baseboard Registers are made with two types of frames: the 3-piece type which embodies features making it particularly well suited for new construction, and the 1-piece type especially adapted for old-house work, or for new house work where the refinements of the 3-piece construction are not necessary.

FORCED AIR REGISTERS

ADVANTAGES OF FLAT TYPE GRILLE

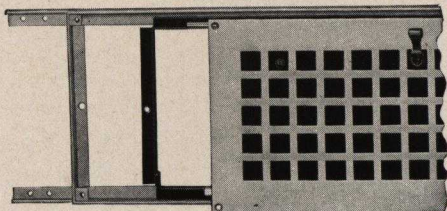
The most up-to-date engineering knowledge available, plus years of practical experience, has led us to confine our production of forced air registers to those having a grille face stamped from heavy gauge steel, for the following reasons:

1. The flat grille face may be easily decorated to match or harmonize with the interior, resulting in an extremely inconspicuous installation.
2. A flat grille does not readily collect dust.
3. A flat grille may be easily cleaned or re-decorated in place.
4. This type of grille is strong and rigid and not easily dented — an important consideration if the register is located near the floor.
5. A flat grille stamped from heavy gauge steel will not easily rust. Due to the high degree of humidity inherent in air conditioning, this is an essential requirement.
6. This type of grille offers just enough resistance to the air to do two things which are essential to the satisfactory functioning of a forced-air system:
 - A. The velocity of the air entering the room is reduced to the proper point.
 - B. The air is diffused over the entire face of the register, causing it to enter the room on a nearly horizontal plane.
7. A flat steel grille does not cause any audible noise, regardless of the velocity of the air.

FORCED AIR REGISTERS

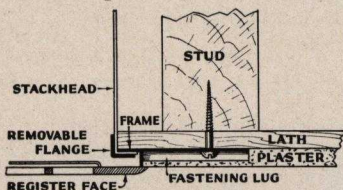
TWO TYPES OF SIDEWALL REGISTERS

3-PIECE TYPE. This register consists of a frame, an inner detachable flange, the grille face, and valve.



Three-piece Sidewall Register Construction

The frame has fastening lugs extending on each side sufficiently to span two or more studs on 16" centers. The frame is fastened directly to the studs, eliminating all special carpentry work and resulting in a rigid, inexpensive installation. The stackhead is bent over the frame and permanently locked in place by means of the detachable flange.



A cardboard face is furnished with each register. This is installed before the plastering, preventing any damage to the interior of the duct. The instal-

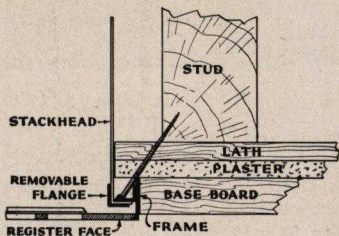
lation is completed by substituting the grille face for the protective cardboard face. The edges of the face, which are beveled, overlap the outer frame $\frac{1}{8}$ " all around, completely concealing the joint between the frame and plaster.

1-PIECE TYPE. This register consists of a grille face and valve, and a detachable flange. The stackhead is bent over the flange, and the grille face is then drawn up tightly to it by means of the two screws, holding the register firmly against the wall. The grille face has ample margin to cover the opening in the wall surrounding the stackhead, thus permitting this type of register to be installed in either old or new houses.

FORCED AIR REGISTERS

TWO TYPES OF BASEBOARD REGISTERS

3-PIECE TYPE. This register consists of a frame, inner detachable flange, the grille face, and valve. The frame has a depth all around of $\frac{7}{8}$ ". It is installed after the plastering is completed. The stackhead is permanently locked to the frame by means of the detachable flange, after which the installation is finished by attaching the grille face by means of the four screws.



1-PIECE TYPE. This register has the grille face and frame in one piece. It is quickly installed by simply screwing to the baseboard. The stackhead slips over a flange which is permanently welded to the face. The frame has a depth all around of $\frac{7}{8}$ ".

Details of Construction

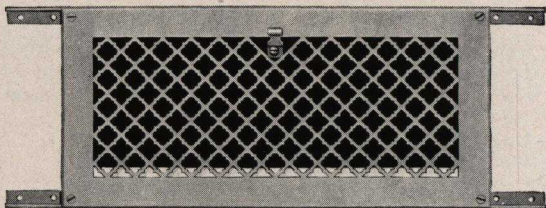
All H & C forced air registers which have valves use the improved hinge especially developed for this type of work. This hinge holds the valve securely in any position and yet operates smoothly with a minimum of effort.

The valve is of sufficiently heavy steel to insure its closing tightly under all conditions.

The registers are so constructed in every detail that they will last indefinitely even under the most severe conditions.

FORCED AIR REGISTERS

3-PIECE SIDEWALL REGISTER



No. 3331

With No. 40 Grille, Class No. is 3341

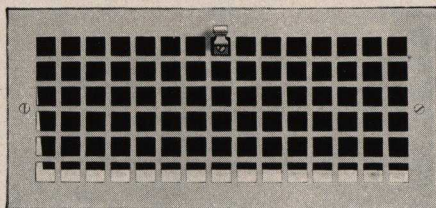
With No. 50 Grille, Class No. is 3351

SEE PAGE 24

An ideal register for new house work, providing a permanently streak proof installation. The extension arms are fastened directly to the studs, thus eliminating all special carpentry work. Frame has depth of $\frac{3}{8}$ ". Grille face overlaps frame $\frac{1}{8}$ ", effectively concealing the plaster joint. Edges of face are beveled, resulting in a very pleasing appearance. The grille face is readily removed for cleaning or redecorating.

This style register is also available with grille face setting inside, instead of overlapping, the frame. For this construction specify "Flush Type" registers.

1-PIECE SIDEWALL REGISTER



No. 3350

With No. 30 Grille, Class No. is 3330

With No. 40 Grille, Class No. is 3340

SEE PAGE 24

This register is designed primarily for old house

FORCED AIR REGISTERS

work. The face has a margin of $1\frac{3}{16}$ ", amply covering the edges of the wall opening. It may also be used on new house work where a removable face is not essential. Heavy slotted flange is provided for fastening to stackhead, making a simple, quick installation. See Page 26 for details of installation.

For very inexpensive sidewall registers adaptable to forced air use, in sizes 6 x 10 and 6 x 12, refer to Class No. 390 Sidewall Register. (Page 19).

To determine the proper size register to use under all conditions, refer to Chart on Page 34.

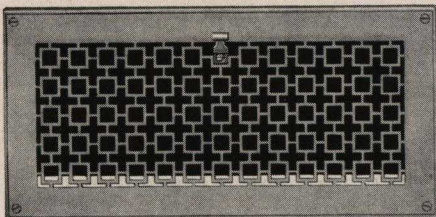
LIST PRICES — SIDEWALL REGISTERS

Nos. 3351, 3341, 3331, 3350, 3340 and 3330

Register Size (Flange) Horizontal Dimension First	Black Japanned and Prime Coat	White, Oak, Lacquered Finishes	Electroplated		Overall Size
			Oxidized Copper	Nickel, Brass, Bronze	
10x 4	\$2.15	\$2.60	\$3.65	\$4.30	No. 3350 add $1\frac{1}{16}$ " to ea. dimension. No. 3351 add $1\frac{1}{4}$ " to ea. dimension.
10x 5	2.30	2.75	3.90	4.60	
10x 6	2.40	2.90	4.10	4.80	
10x 8	2.50	3.15	4.50	5.40	
12x 4	2.30	2.75	3.90	4.60	
12x 5	2.40	2.90	4.10	4.80	
12x 6	2.55	3.05	4.35	5.10	
12x 8	2.65	3.40	4.85	5.70	
12x 9	2.90	3.55	5.05	6.00	
12x10	3.10	3.70	5.30	6.20	
14x 4	2.75	3.30	4.70	5.50	
14x 5	2.80	3.35	4.75	5.60	
14x 6	2.85	3.45	4.85	5.70	
14x 8	3.00	3.60	5.10	6.00	
14x10	3.15	3.80	5.35	6.30	
30x 4	4.50	5.40	7.65	9.00	
30x 5	4.75	5.70	8.05	9.50	
30x 6	5.00	6.00	8.50	10.00	
30x 8	5.65	6.80	9.60	11.30	

FORCED AIR REGISTERS

3-PIECE BASEBOARD REGISTER



No. 3141

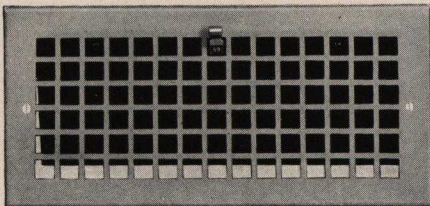
With No. 30 Grille, Class No. is 3131

With No. 50 Grille, Class No. is 3151

SEE PAGE 24

This register provides a permanently streak-proof installation, as the stackhead is securely locked to the frame by means of a detachable flange. The grille face is easily removed for cleaning or redecorating. The frame has a depth all around of $\frac{7}{8}$ ". The distance from floor to stackhead opening is $\frac{5}{8}$ ". This type register is adapted to installations where the top of the register sets flush with or projects above the baseboard. For baseboard installations in which the baseboard is higher than the desired register height, 1-piece sidewall registers may be used. Details of installation are explained on Page 27.

1-PIECE BASEBOARD REGISTER



No. 3150

With No. 30 Grille, Class No. is 3130

With No. 40 Grille, Class No. is 3140

SEE PAGE 24

Somewhat less expensive than the 3-piece register,

FORCED AIR REGISTERS

this register permits a very simple, satisfactory installation in either old or new house work, when a removable grille face is not essential. Frame depth all around is $\frac{7}{8}$ " and distance from floor to stack-head opening is $\frac{5}{8}$ ". See Page 27 for details of installation.

For very inexpensive baseboard registers adaptable to forced air use, in sizes 6 x 10 and 6 x 12, refer to Class No. 191 $\frac{1}{4}$ Baseboard Register (Page 15).

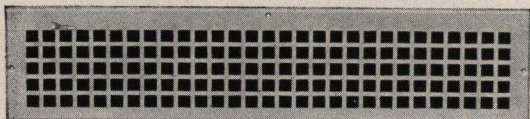
To determine the proper size register to use under all conditions refer to Chart on Page 34.

LIST PRICES — BASEBOARD REGISTERS Nos. 3151, 3141, 3131, 3150, 3140 and 3130

Register Size (Flange) Horizontal Dimension First	Black Japanned and Prime Coat	White, Oak, Lacquered Finishes	Electroplated		Overall Size
			Oxidized Copper	Nickel, Brass, Bronze	
10x 4	\$2.55	\$3.10	\$4.40	\$5.15	Add 1 $\frac{1}{4}$ " to each dimension.
10x 5	2.75	3.30	4.65	5.50	
10x 6	2.90	3.50	4.95	5.80	
10x 8	3.25	3.90	5.50	6.40	
12x 4	2.75	3.30	4.65	5.50	
12x 5	2.90	3.50	4.95	5.80	
12x 6	3.10	3.70	5.20	6.15	
12x 8	3.45	4.20	5.90	6.95	
12x 9	3.65	4.40	6.20	7.25	
12x10	3.75	4.50	6.40	7.50	
14x 4	3.30	3.95	5.60	6.60	
14x 5	3.40	4.05	5.80	6.80	
14x 6	3.50	4.20	5.90	6.95	
14x 8	3.60	4.40	6.15	7.25	
14x10	3.80	4.55	6.45	7.60	
30x 4	5.45	6.55	9.25	10.90	
30x 5	5.75	6.95	9.85	11.55	
30x 6	6.05	7.25	10.00	12.00	
30x 8	6.80	8.20	11.50	13.50	

FORCED AIR REGISTERS

BASEBOARD RETURN AIR INTAKES



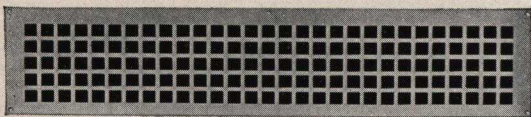
No. 3650

With No. 30 Grille, Class No. is 3630

With No. 40 Grille, Class No. is 3640

SEE PAGE 24

The return air intakes of this series have a depth of $\frac{7}{8}$ " and are designed to be used where the intake extends above the top of the baseboard. A flange, welded to the intake, engages the duct thus making the connection. The bottom margin is narrow ($\frac{3}{4}$ "), to facilitate the circulation of the return air.



No. 3655

With No. 30 Grille, Class No. is 3635

With No. 40 Grille, Class No. is 3645

SEE PAGE 24

A flat intake, designed for installations in which the baseboard height is greater than that of the intake. Furnished with or without flange for making connection with duct. Unless otherwise specified, intakes without duct flanges will be furnished.

FORCED AIR REGISTERS

LIST PRICES — INTAKES

Nos. 3650, 3640 and 3630

Intake Size (Flge.) H't'n'l Dim. First	Black Japan'd and Prime Coat	White, Oak, Lac- quered Finishes	Electroplated		Overall Size
			Oxi- dized Copper	Nickel, Brass, Bronze	
12x4	\$1.80	\$2.30	\$3.55	\$4.30	13 ³ / ₄ x5 ¹ / ₂
12x5	1.95	2.50	3.80	4.60	13 ³ / ₄ x6 ¹ / ₂
12x6	2.05	2.60	4.00	4.85	13 ³ / ₄ x7 ¹ / ₂
14x4	2.15	2.75	4.25	5.15	15 ³ / ₄ x5 ¹ / ₂
14x5	2.25	2.85	4.45	5.35	15 ³ / ₄ x6 ¹ / ₂
14x6	2.30	2.95	4.50	5.45	15 ³ / ₄ x7 ¹ / ₂
24x4	2.90	3.70	5.65	6.85	25 ³ / ₄ x5 ¹ / ₂
24x5	3.10	4.00	6.05	7.35	25 ³ / ₄ x6 ¹ / ₂
24x6	3.30	4.20	6.45	7.85	25 ³ / ₄ x7 ¹ / ₂
30x4	3.60	4.60	7.05	8.55	31 ³ / ₄ x5 ¹ / ₂
30x5	3.80	4.85	7.50	9.05	31 ³ / ₄ x6 ¹ / ₂
30x6	4.00	5.10	7.85	9.50	31 ³ / ₄ x7 ¹ / ₂
30x8	4.55	5.80	8.85	10.75	31 ³ / ₄ x9 ¹ / ₂

LIST PRICES — INTAKES

Nos. 3655, 3645 and 3635

Intake Size Apprx. Opp.	Black Japan'd and Prime Coat	White, Oak, Lac- quered Finishes	Electroplated		Overall Size	For Duct Flange Add to List, Any Finish
			Oxi- dized Copper	Nickel, Brass, Bronze		
12x4	\$0.90	\$1.10	\$1.60	\$1.90	13 ³ / ₄ x5 ¹ / ₂	\$0.50
12x5	1.05	1.25	1.80	2.15	13 ³ / ₄ x6 ¹ / ₂	.50
14x4	1.00	1.20	1.75	2.00	15 ³ / ₄ x5 ¹ / ₂	.55
14x5	1.10	1.30	1.85	2.20	15 ³ / ₄ x6 ¹ / ₂	.60
18x4	1.30	1.55	2.25	2.65	19 ³ / ₄ x5 ¹ / ₂	.60
18x5	1.35	1.65	2.40	2.85	19 ³ / ₄ x6 ¹ / ₂	.65
20x4	1.35	1.60	2.30	2.70	21 ³ / ₄ x5 ¹ / ₂	.65
20x5	1.40	1.70	2.45	2.90	21 ³ / ₄ x6 ¹ / ₂	.70
24x4	1.45	1.70	2.40	2.80	25 ³ / ₄ x5 ¹ / ₂	.70
24x5	1.50	1.80	2.55	3.00	25 ³ / ₄ x6 ¹ / ₂	.75
30x4	1.80	2.15	3.05	3.60	31 ³ / ₄ x5 ¹ / ₂	.80
30x5	1.90	2.30	3.20	3.80	31 ³ / ₄ x6 ¹ / ₂	.90

OTHER INTAKES: Any of the standard forced air registers may be had without valves and are thus suitable for intakes. Often, as in bedrooms, the intake should have a valve and in such cases regular forced-air registers are very suitable.

FORCED AIR REGISTERS

For Correct Size Forced Air Registers Use Chart Below

This new chart is based on the most recent and up-to-date information available on the flow of air through a grille. The velocities shown are those which would be obtained by an anemometer placed against the register face. The figures shown are applicable to both the plain lattice and the fancy design grills shown on Page 24.

C. F. M. DELIVERED THROUGH H & C FORCED AIR REGISTERS AND INTAKES AT VARIOUS VELOCITIES

I. BASEBOARD AND SIDEWALL REGISTERS

Register Flange Sizes	Cubic Feet Per Minute Delivered through Register at Following Velocities:					
	200 Ft./Min.	250 Ft./Min.	300 Ft./Min.	400 Ft./Min.	600 Ft./Min.	800 Ft./Min.
10x 4	30	38	45	60	90	120
10x 5	39	49	58	78	117	156
10x 6	49	62	73	98	147	196
10x 8	69	86	104	138	207	276
12x 4	36	45	54	72	108	144
12x 5	48	60	72	96	144	192
12x 6	60	75	90	120	180	240
12x 8	84	105	126	168	252	336
12x 9	95	118	141	190	285	380
12x10	109	136	164	218	327	436
14x 4	43	54	64	86	129	172
14x 5	57	72	85	114	171	228
14x 6	72	90	108	144	216	288
14x 8	101	126	151	202	303	404
14x10	128	160	192	256	384	512
30x 4	96	120	144	192	288	384
30x 5	126	158	189	252	378	504
30x 6	158	198	237	316	474	632
30x 8	222	277	333	444	666	888

II. RETURN AIR INTAKES

Intake Sizes	Cubic Feet Per Minute Drawn through Intake at Following Velocities:					
	200 Ft./Min.	250 Ft./Min.	300 Ft./Min.	400 Ft./Min.	600 Ft./Min.	800 Ft./Min.
12x 4	53	66	80	106	159	212
12x 5	67	84	100	134	201	268
12x 6	80	100	120	160	240	320
14x 4	62	77	93	124	186	248
14x 5	78	97	117	156	234	312
14x 6	93	116	139	186	279	372
18x 4	80	100	120	160	240	320
18x 5	100	125	150	200	300	400
20x 4	88	110	132	176	264	352
20x 5	110	138	165	220	330	440
24x 4	107	134	160	214	321	428
24x 5	133	166	200	266	400	532
24x 6	160	200	240	320	480	640
30x 4	133	166	200	266	400	532
30x 5	167	209	250	334	500	668
30x 6	200	250	300	400	600	800
30x 8	267	335	400	534	800	1068

AUTOMATIC HEAT CONTROL

No. 1000 (60 cycle)

No. 1000C (25 cycle)

(60 cycle furnished, unless otherwise specified)



The H & C Automatic Heat Control is a high grade, low priced Automatic Furnace Regulator embodying features usually found in only the most expensive units.

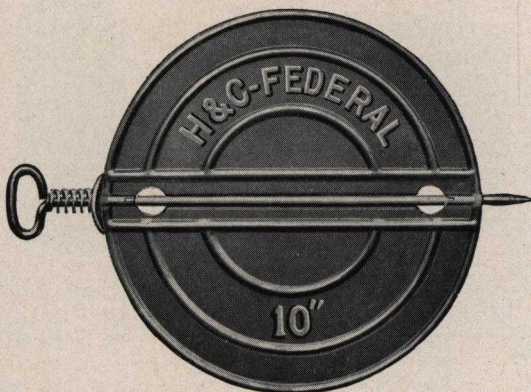
1. Gears are of hardened steel, accurately cut.
2. The room thermostat is protected from all arcing, thus greatly prolonging its life.
3. The contact points are in the motor, and are operated by cams, insuring positive action and long life.
4. The arms are readily set to stop in any position.
5. The transformer is a separate unit, which greatly simplifies installation.
6. The motor operates in $5\frac{1}{2}$ seconds and yet has plenty of reserve power.
7. Motor bearings are self oiling.
8. The motor is of the induction type — no brushes to cause trouble.
9. The set is 100% complete.
10. The room thermostat is adjusted at the factory to agree with the thermometer, which is extremely accurate.
11. The sensitive thermostat is so constructed that dust can not reach the contact points, thus eliminating the chief cause of thermostat trouble.

Dealer and Consumer Literature on Request

WARM AIR DAMPERS

Nos. 506-514

Reversible Stem



Patented

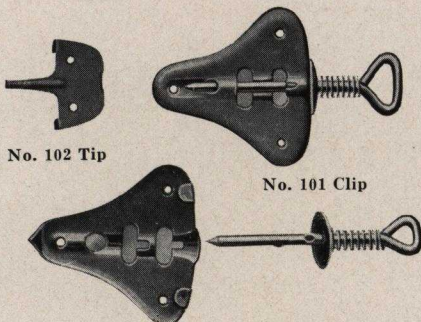
These sturdy, well-made steel dampers (formerly sold under the trade name STAR) have been very popular items with the furnace trade for many years. Stem enters either side of disc. Embossing makes the disc rigid. Packed $\frac{1}{2}$ gross to the carton, on all sizes except 14" which are packed $\frac{1}{4}$ gross to the carton.

LIST PRICES and SHIPPING WEIGHTS

Class No.	Size	List per doz.	Weight per doz.
506	6"	\$1.60	8 lbs.
507	7"	1.60	9 lbs.
508	8"	2.20	10 lbs.
508 $\frac{1}{2}$	8 $\frac{1}{2}$ "	2.45	11 lbs.
509	9"	2.60	12 lbs.
510	10"	2.80	13 lbs.
512	12"	3.50	15 lbs.
514	14"	5.00	20 lbs.

DAMPER CLIPS AND TIPS

Nos. 101 and 102
No Rivet Type



No. 102 Tip

No. 101 Clip

Made of heavy gauge materials. Prongs provide quick and secure fastening to disc without rivets; also punched with rivet holes. Packed 5 gross clips to the shipping case; weight 210 lbs. Weight per gross, Clips 42 lbs.; Tips 5 lbs.

LEADING STYLES OF CHAIN†



No. 00 Safety Chain



No. 18 Wire Register Chain



No. 9 Wire Clinch Chain

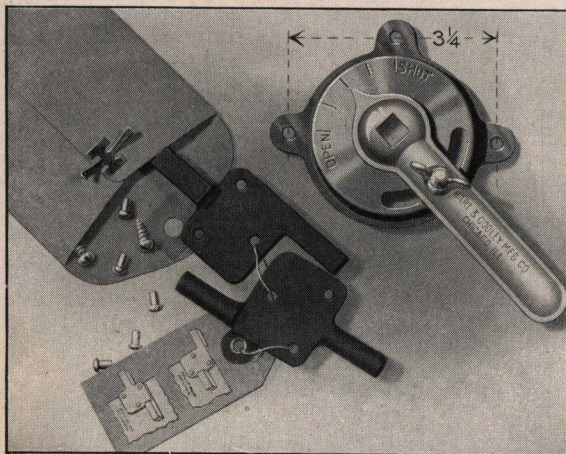
H & C chain is of the finest quality, sold at attractive prices. Available in bright, electro-galvanized (SRP), or coppered finish. Furnished in reels of 500 ft. or desired lengths in boxes.

SHIPPING WEIGHTS — CASE LOTS

	6 Reels 500 ft. ea.	50 Bxs. 10 yds. ea.	50 Bxs. 12 yds. ea.	20 Bxs. 100 ft. ea.
No. 00	80 lbs.	45 lbs.	52 lbs.	56 lbs.
No. 18	85 lbs.	56 lbs.	70 lbs.	76 lbs.
No. 9	98 lbs.	60 lbs.	75 lbs.	80 lbs.

†For complete line see H & C Furnace Accessory Catalog.

DAMPER REGULATORS



Complete Set No. 70 $\frac{3}{8}$

H & C $\frac{1}{4}$ " and $\frac{3}{8}$ " damper regulators for ventilating and forced air heating ducts are regularly furnished in complete sets with all parts, including regulator, a pair of combination regular and splitter bearings necessary screws and rivets, furnished in one envelope. This method of packaging makes sure that all parts are at hand when needed. Separate parts available as ordered.

Regulators are cadmium plated. Positive adjustment provided. Bearings are unbreakable malleable iron. They may be used for either regular or splitter dampers by simply reversing their position.

LIST PRICES — COMPLETE SETS AND PARTS

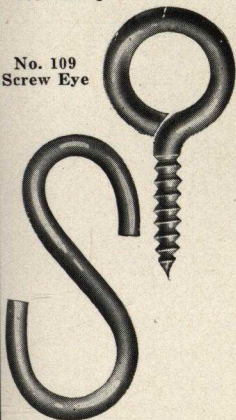
Item	Class No.	List	No. in Carton
$\frac{1}{4}$ " Complete Set	No. 70 $\frac{1}{4}$	Each \$0.40	12
$\frac{3}{8}$ " Complete Set	No. 70 $\frac{3}{8}$	Each .60	12
$\frac{1}{4}$ " Dial Regulator Only	No. 60 $\frac{1}{4}$	Each .28	12
$\frac{3}{8}$ " Dial Regulator Only	No. 60 $\frac{3}{8}$	Each .40	12
$\frac{1}{2}$ " Quadrant Only	No. 61 $\frac{1}{2}$	Each .75	6
$\frac{1}{4}$ " Combination Bearings	No. 63 $\frac{1}{4}$	Per Pr. .12	12 pair
$\frac{3}{8}$ " Combination Bearings	No. 63 $\frac{3}{8}$	Per Pr. .24	12 pair
$\frac{1}{2}$ " Combination Bearings	No. 63 $\frac{1}{2}$	Per Pr. .30	6 pair

STEEL PULLEYS

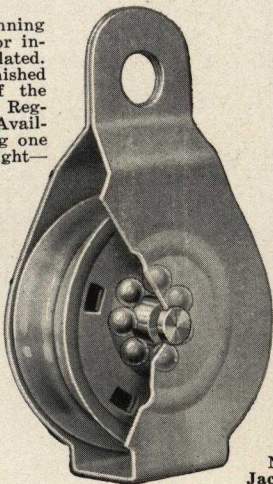
NO. 002 — BALL BEARING

The last word in a free-running pulley. Ideal for regulator installations. Cadmium plated. Wheel size $1\frac{1}{2}$ ". Furnished with or without any of the three attachments shown. Regularly packed in bulk. Available in cartons containing one dozen each. Shipping weight—130 lbs. per 1000.

No. 109
Screw Eye



No. 10
"S" Hook



No. 13
Jack Chain



STEEL FURNACE PULLEYS

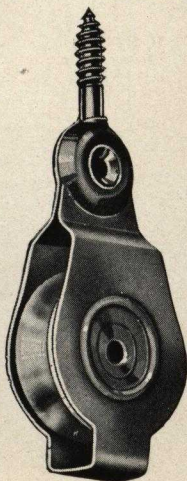
Smooth-running, well made. Wheel size $1\frac{1}{4}$ ". Furnished without finish or cadmium plated. Regularly shipped in bulk by the thousand. Can be packed in cartons as wanted.

Shipping Weights per 1000

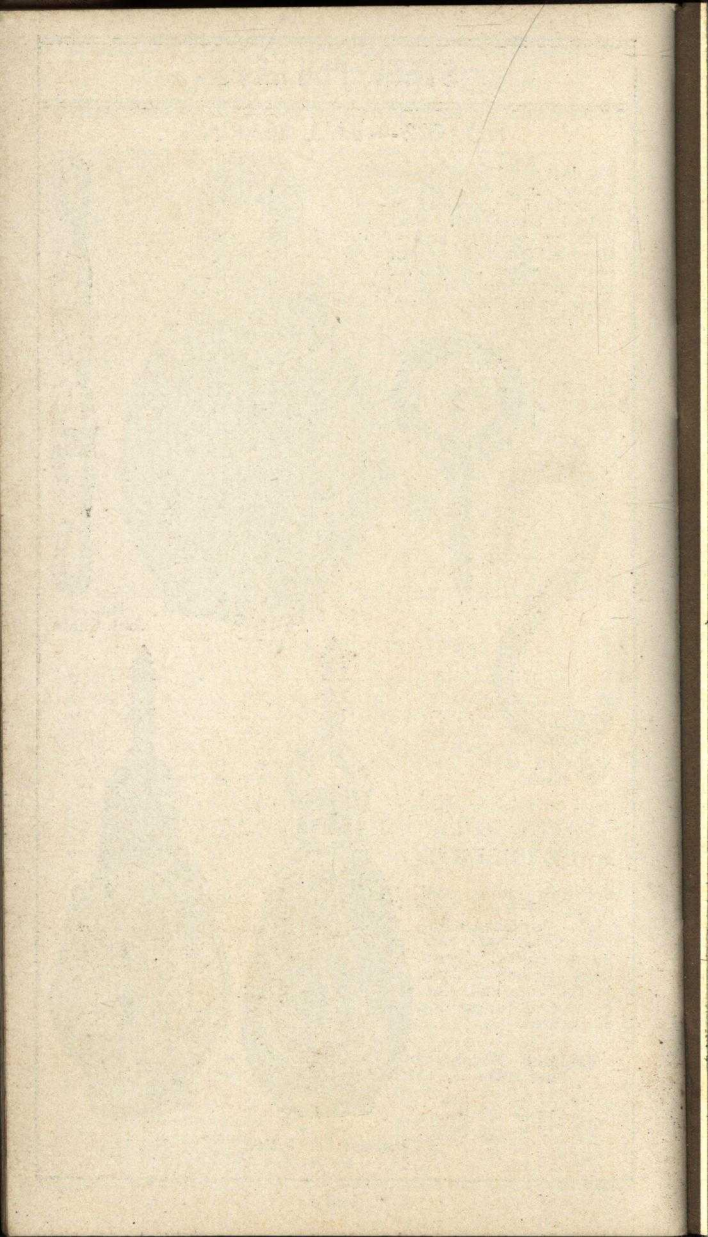
- No. 1 — 70 lbs.
- No. 10 — 90 lbs.
- No. 11 — 100 lbs.

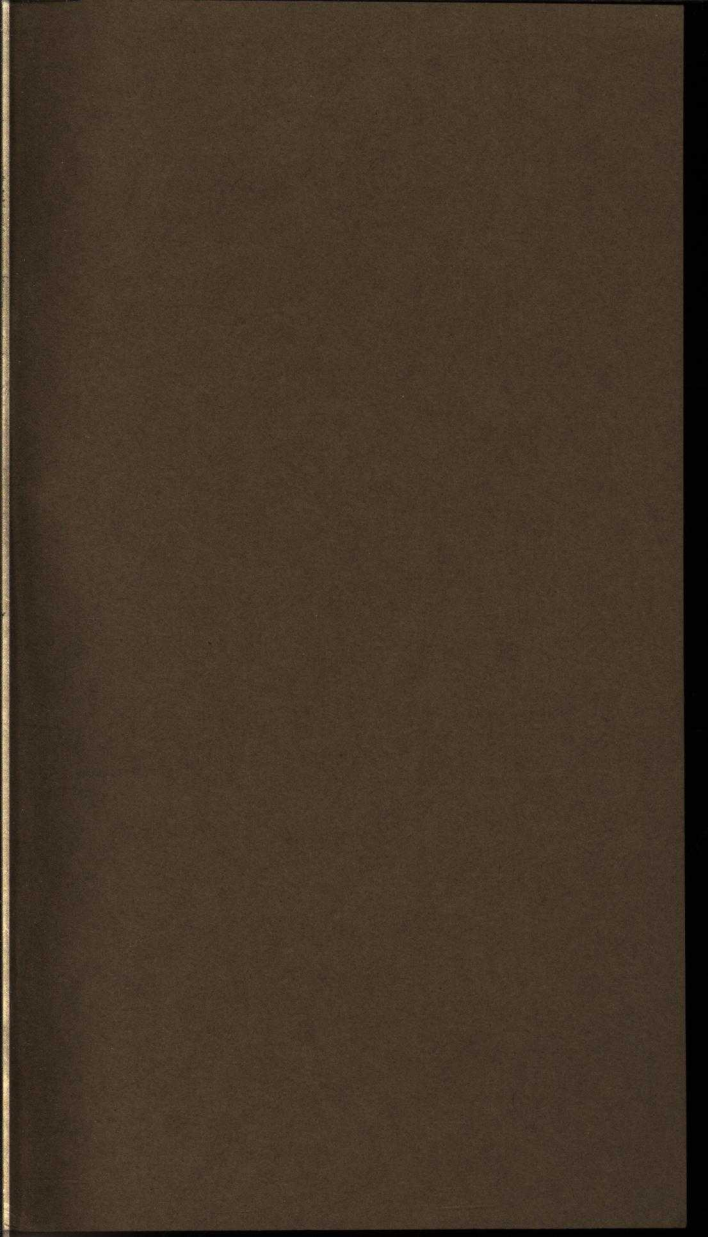


No. 10.
Without Screw Eye
No. 1



No. 11





SCHAEF ROOFING & SUPPLY CO.

FORT WAYNE, INDIANA

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